

XP-002133679

AN - 1975-57901W [35]

A - [001] 012 02- 055 056 229 247 260 263 278 279 282 296 343 360 682 689
693

CPY - KUNU-I

DC - A41 E14

FS - CPI

MC - A01-D03 E10-J02B

M3 - [01] H7 M210 M212 M231 M240 M281 M312 M320 M610 G100 M531 H721 N050
N310 Q110 Q120 H715 M510 M520 M540 M720 M414 M902

PA - (KUNU-I) KUNUGI T

PN - JP50053333 A 19750512 DW197535 000pp

PR - JP19730103244 19730914

AB - J50053333 Styrene is prepd. by dehydrogenating PhEt with O₂ in the presence of a catalyst contg. reduced Pd and metal halides or oxyhalides on a carrier (halogen is Cl Br or iodine). In an example, silica gel was impregnated with PdCl₂ (1% based on Pd) reduced in a H₂ stream at 450 degrees C for 3 hrs. and treated with 1 mole NaBr based on Pd. The catalyst was packed into a tubular reactor and treated with 1:1:8 molar ratio of PhEt-O-steam at 250 degrees C to give 14.2% styrene and 0.2% CO₂, of 4.5% styrene and 5.6% CO₂ for the control (no NaBr). The yield was raised to 36.1% at 305 degrees C. LiCl, NaCl, NaI, CaBr₂, CoBr₂, NaBrO₃, or VOBr₃ were also effective instead of NaBr.

IW - STYRENE PREPARATION ETHYLBENZENE DEHYDROGENATE OXYGEN CATALYST CONTAIN
REDUCE PALLADIUM METAL OXY

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NC - 001

OPD - 1973-09-14

ORD - 1975-05-12

PAW - (KUNU-I) KUNUGI T

TI - Styrene prepn from ethylbenzene - by dehydrogenation with oxygen using catalyst contg. reduced palladium and metal (oxy)halides